

Title (en)

1,4-BENZODIOXANE SULFONIC ACID COMPOUND AND USE THEREOF AS ELECTRON-ACCEPTOR MATERIAL

Title (de)

1,4-BENZODIOXANSULFONSÄUREVERBINDUNG UND DEREN VERWENDUNG ALS ELEKTRONENAKZEPTORMATERIAL

Title (fr)

COMPOSE D'ACIDE 1,4-BENZODIOXANE SULFONIQUE ET SON UTILISATION COMME MATIERE ACCEPTRICE D'ELECTRONS

Publication

EP 1640372 A4 20100922 (EN)

Application

EP 04746679 A 20040623

Priority

- JP 2004009210 W 20040623
- JP 2003181025 A 20030625

Abstract (en)

[origin: EP1640372A1] By using a charge-transporting thin film which is made of charge-transporting varnish containing, as an electron-acceptor material, a 1,4-benzodioxane sulfonic acid compound represented by the formula (1) below especially in an OLED device or a PLED device, there can be realized excellent EL device characteristics such as low driving voltage, high luminous efficiency and long life.

IPC 8 full level

C07D 319/20 (2006.01); **C09K 11/06** (2006.01); **H01L 51/00** (2006.01); **H05B 33/14** (2006.01); **H05B 33/22** (2006.01); **H01L 51/50** (2006.01)

CPC (source: EP KR US)

C07D 319/20 (2013.01 - EP KR US); **C09K 11/06** (2013.01 - EP US); **H05B 33/14** (2013.01 - EP US); **H10K 85/141** (2023.02 - EP US); **H10K 85/60** (2023.02 - EP US); **C09K 2211/1014** (2013.01 - EP US); **C09K 2211/1088** (2013.01 - EP US); **C09K 2211/145** (2013.01 - EP US); **H10K 50/14** (2023.02 - EP US); **H10K 85/324** (2023.02 - EP US); **H10K 2102/103** (2023.02 - EP US)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2005000832A1

Cited by

EP2062871A4; EP2062870A4; EP1773102A4; EP3024049A1; CN107112422A; EP3886194A3; US8357770B2; US9172048B2; US8575392B2; WO2016079144A1; US8906519B2; US9172043B2; US9251923B2; TWI690519B; US2017365798A1; US10658598B2

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